

Title (en)  
LIQUID DISPENSER

Title (de)  
FLÜSSIGKEITSSPENDER

Title (fr)  
DISTRIBUTEUR DE LIQUIDE

Publication  
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Application  
**EP 02774156 A 20021105**

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Abstract (en)  
[origin: WO03039433A1] The present invention relates to an apparatus for controlled rate dispensing of a liquid contained in a flexible bag (9), said apparatus including a chamber (1) adapted to contain the flexible bag containing the liquid, an outlet (13) from the chamber (1) adapted to receive an outlet conduit (12) communicating with the interior of the flexible bag, a source of gas (15) arranged to apply pressure to at least part of the exterior walls of the flexible bag, and a pressure regulator (16) arranged to control the pressure applied to said exterior walls, whereby pressure applied to said exterior walls causes liquid to be dispensed from the flexible bag (9) through the outlet conduit (12) at a controlled rate. A method of delivering liquid at a controlled rate using the apparatus of the present invention is also described.

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Citation (search report)  
• [X] US 5163909 A 19921117 - STEWART GENE L [US]  
• [X] US 5954696 A 19990921 - RYAN TIMOTHY C [US]  
• [E] WO 2005011778 A1 20050210 - PRO MED MEDIZINISCHE PRODUKTIO [AT], et al  
• [E] DE 10319874 B3 20040819 - ARZNEIMITTELGESELLSCHAFT MIT B [DE]  
• [A] US 5106374 A 19920421 - APPERSON CURTIS R [US], et al  
• [A] FR 2850582 A1 20040806 - TRELY RAYMOND [FR]  
• [A] US 6062429 A 20000516 - WEST JOE E [US], et al  
• See references of WO 03039433A1

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